

Model Curriculum for
B.Voc/ D.Voc
in
Software Development



All India Council for Technical Education
Nelson Mandela Marg, New Delhi

Curriculum for Software Development

Level	Code	Educational Component	Credit	Marks	
3 Semester I		Theory			
		Language-I	3	50	
		Applied Chemistry	3	50	
		Applied Physics	3	50	
		Applied Maths - I	3	50	
		Lab/Practical			
		Applied Chemistry Lab	1	25	
		Applied Physics Lab	1	25	
		IT-Tools Practical	1	50	
		On-Job-Training (OJT)/Qualification Packs			
		Domestic Data Entry Operator (SSC/Q2212)	(Any one)	15	200
		Domestic IT helpdesk Attendant (SSC/Q0110)			
	CRM Domestic Voice (SSC/Q2210)				
3 Semester II		Theory			
		General Foundation Course -I	3	50	
		Basic Electricity	3	50	
		Basic Electronics	3	50	
		Applied Mathematics -II	3	50	
		Lab/Practical			
		Basic Electricity Lab	1.5	50	
		Basic Electronics Lab	1.5	50	
		On-Job-Training (OJT)/Qualification Packs			
		Any one of the QP's can be opted as offered in Semester I	(Any one)	15	200
4 Semester I		Theory			
		General Foundation Course (501) Class XII	3	50	
		IT Tools (795)	3	50	
		Web Applications (796)	3	50	
		Language -II	3	50	
		Lab/Practical			
		IT-Tools- Practical (Advanced)	1.5	50	
		Web Applications (Practical)	1.5	50	
		On-Job-Training (OJT)/Qualification Packs			
		Media Developer (SSC/Q050)	(Any one)	15	200
		Junior Software Developer (SSC/Q0508)			

Level	Code	Educational Component	Credit	Marks
		CRM Domestic Non-Voice (SSC/Q2211)		
4 Semester II	Theory			
		Database Management Systems (795)	3	50
		Digital Electronics	3	50
		Computer Networks	3	50
		Maintenance of Computer Systems	3	50
	Lab/Practical			
		Database Management System Lab	1.5	50
		Maintenance of Computer Systems and Computer Network Lab	1.5	50
	On-Job-Training (OJT)/Qualification Packs			
		Any one of the QP's can be opted as offered in Semester I	(Any one)	15
5 Semester I	Theory			
		IT Foundation and Programming Concepts	3	50
		Web Designing	3	50
		Programming in C	3	50
		Operating System (OS)	3	50
	Lab/Practical			
		Web Designing Lab	1.5	50
		C Programming Lab	1.5	50
	On-Job-Training (OJT)/Qualification Packs			
		Technical Writer (SSC/Q0505)	(Any one)	15
	Infrastructure Engineer (SSC/Q0801)			
	Associate – CRM (SSC/Q2202)			
5 Semester II	Theory			
		Data Structures	3	50
		Concepts of Data Mining	3	50
		OOPs with Java	3	50
		Multimedia Tools & Applications	3	50
	Lab/Practical			
		Data Structure Lab	1.5	50
		Java Lab	1.5	50
	On-Job-Training (OJT)/Qualification Packs			
		Web Developer (SSC/Q0503)	(Any one)	15

Level	Code	Educational Component	Credit	Marks
		Test Engineer (SSC/Q1301)		
6 Semester I	Theory			
		Linux Operating System – Operations and Management	3	50
		Software Engineering	3	50
		Web Development using PHP	3	50
		Windows Development Fundamental	3	50
	Lab/Practical			
		Web Development using PHP Lab	1.5	50
		Window Development Fundamentals Lab	1.5	50
	On-Job-Training (OJT)/Qualification Packs			
		Junior Data Associate (SSC/Q0401)	(Any one)	15
	IP Executive (SSC/Q6201)			
	Security Analyst (SSC/Q0901)			
6 Semester II	Theory			
		Software Testing and Project Management	3	50
		Android Application Development	3	50
		Window Configuration and Server Administration	3	50
		Management Information Systems	3	50
	Lab/Practical			
		Android Application Development Lab	1.5	50
		MIS Lab	1.5	50
	On-Job-Training (OJT)/Qualification Packs			
		QA Engineer (SSC/Q1302)	Any one)	15
	Software Engineer (SSC/Q4601)			
7 Semester I	Theory			
		Technology Trends in IT	3	50
		Window Mobile Application Development	3	50
		Introduction to Python Programming	3	50
		Introduction to Microprocessors	3	50
	Lab/Practical			
	Window Mobile Application Development Lab	1.5	50	

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		Python Programming Lab	1.5	50	
	On-Job-Training (OJT)/Qualification Packs				
		Management Trainee (SSC/Q6301)	(Any one)	15	200
		Associate - Transactional F&A (SSC/Q2301)			
	Consultant Network Security (SSC/Q0917)				
7 Semester II	Theory				
		Introduction to AI	3	50	
		e-Commerce	3	50	
		Computer Network Security	3	50	
		Introduction to Biometrics	3	50	
	Lab/Practical				
		AI Lab	1.5	50	
		Computer Network Security Lab	1.5	50	
	On-Job-Training (OJT)/Qualification Packs				
		Master Trainer for Software Developer (SSC/Q0509)	(Any one)	15	200
	Hardware Engineer (SSC/Q4701)				